

Comparisons of Job Characteristics

Focus Occupation: Electronics Engineers, Except Computer (17-2072)

Associated Occupation: Network and Computer Systems Administrators (15-1071)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 64

Focus Occupation: Electronics Engineers, Except Computer (17-2072)

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Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Computers and Electronics	8.4	21.5	19.7	0 Current knowledge level may be sufficient
Telecommunications	3.9	13.4	7.2	<< Extensive education and/or training may be required
Administration and Management	8.4	11.8	10.2	< Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 89

Focus Occupation: Electronics Engineers, Except Computer (17-2072)

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Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Complex Problem Solving	9.1	12.2	12.5	0 Current skill level may be sufficient
Systems Analysis	6.5	11.1	12.5	> Skill level is likely sufficient
Systems Evaluation	6.4	11.0	10.7	0 Current skill level may be sufficient
Quality Control Analysis	5.9	9.8	11.1	> Skill level is likely sufficient
Programming	2.2	8.5	8.1	0 Current skill level may be sufficient
Technology Design	2.6	6.5	8.1	> Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 96

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Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Information Ordering	9.9	11.8	13.3	>	Current ability level is likely sufficient
Category Flexibility	9.0	10.7	11.6	0	Current ability level may be sufficient
Flexibility of Closure	7.8	10.2	9.8	0	Current ability level may be sufficient
Fluency of Ideas	7.6	10.1	10.5	0	Current ability level may be sufficient
Selective Attention	8.7	9.9	10.3	0	Current ability level may be sufficient
Perceptual Speed	7.4	9.0	8.0	<	Some improvement in abilities may be required
Speed of Closure	5.9	7.7	7.6	0	Current ability level may be sufficient
Memorization	5.6	7.3	7.6	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 49

Focus Occupation: Electronics Engineers, Except Computer (17-2072)
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Work Activities	Exclusivity of Activity
Communicate technical information	4
Develop policies, procedures, methods, or standards	21
Follow confidentiality procedures	58
Use computers to enter, access or retrieve data	3
Use knowledge of investigation techniques	16
Use spreadsheet software	18
Use word processing or desktop publishing software	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 78

Focus Occupation: Electronics Engineers, Except Computer (17-2072)
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Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Content authoring and editing software	1

Data management and query software	1
Development software	4
Electronic and communication measuring and testing instruments	14
Finance accounting and enterprise resource planning ERP software	2
Industry specific software	1
Information exchange software	1
Light and wave generating and measuring equipment	4
Network applications software	1
Operating environment software	12

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.